

1632
9/26/2000

Serial Number: 09/491,974

CRF Processing Date:

Edited by:

Verified by:

(STIC staff)

ENTERED

RECEIVED

OCT 04 2000

TECH CENTER 1600/2900

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1632

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/491,974

DATE: 09/26/2000
 TIME: 16:43:00

Does Not Comply
 Corrected Diskette Needed

Input Set : A:\Sequence Listing.TXT
 Output Set : N:\CRF3\09262000\I491974.raw

9 <110> APPLICANT: U.S. Medical Research Institute of Infectious Diseases
 10 Schmaljohn, Connie S.
 11 Hooper, J. W.
 13 <120> TITLE OF INVENTION: DNA Vaccines Against Hantavirus Infections
 15 <130> FILE REFERENCE: Army-142
 17 <140> CURRENT APPLICATION NUMBER: 09/491,974
 C--> 19 <141> CURRENT FILING DATE: 2000-07-27
 21 <150> PRIOR APPLICATION NUMBER: US 60/117,680
 23 <151> PRIOR FILING DATE: 1999-01-29
 25 <160> NUMBER OF SEQ ID NOS: 4
 27 <170> SOFTWARE: Microsoft Word, Office 97, IBM compatible

ERRORED SEQUENCES

397 <210> SEQ ID NO: 4
 399 <211> LENGTH: 6050
 400 <212> TYPE: DNA
 401 <213> ORGANISM: artificial sequence
 W--> 402 <220> FEATURE:
 403 <223> OTHER INFORMATION: /note="S genome segment from SEOV, strain SR-11, subcloned into DNA
 vector pWRG7077"
 W--> 404 <400> SEQUENCE: 4
 405 gggggggggg ggcgctgagg tctgcctcgt gaagaagggtg 40
 406 ttgctgactc ataccaggcc tgaatcgccc catcatccag 80
 407 ccagaaagtg agggagccac ggttgatgag agctttgttg 120
 408 taggtggacc agttggtgat tttgaacttt tgctttgcca 160
 409 cggaacggtc tgcgttgctg ggaagatgag tgatctgatc 200
 410 cttcaactca gcaaaagtgc gatttattca acaaagccgc 240
 411 cgtcccgta agtcagcgta atgctctgcc agtggtacaa 280
 412 ccaattaacc aattctgatt agaaaaactc atcgagcatc 320
 413 aaatgaaact gcaatttatt catatcagga ttatcaatac 360
 414 catatttttg aaaaagccgt ttctgtaatg aaggagaaaa 400
 415 ctcaccgagg cagttccata ggatggcaag atcctgggat 440
 416 cgggtctgca ttccgactcg tccaacatca atacaacctc 480
 417 ttaatttccc ctctcaaaa ataagggtat caagtggaaa 520
 418 atcaccatga gtgacgactg aatccggtga gaatggcaaa 560
 419 agcttatgca ttcttttcca gacttgttca acaggccagc 600
 420 cattacgctc gtcataaaaa tcaactcgcat caaccaaacc 640
 421 gttattcatt cgtgattgag cctgagcgag acgaaatacg 680
 422 cgatcgctgt taaaaggaca attacaaaca ggaatcgaat 720
 423 gcaaccggcg caggaacact gccagcgcat caacaatatt 760
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 425 gttttcccg ggatcgagc ggtgagtaac catgcatcat 840
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 427 aaattccgct agccagttta gtctgacctc ctcatctgta 920
 428 acatcattgg caacgctacc tttgccatgt ttcagaaaca 960
 429 actctggcgc atcgggcttc ccatacaatc gatagattgt 1000

RAW SEQUENCE LISTING

DATE: 09/26/2000

PATENT APPLICATION: US/09/491,974

TIME: 16:43:00

Input Set : A:\Sequence Listing.TXT

Output Set: N:\CRF3\09262000\I491974.raw

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431 ccatataaat cagcatccat gttggaattt aatcgcgggc 1080
432 tcgagcaaga cgtttcccggt tgaatatggc tcataacacc 1120
433 ccttggtatta ctgtttatgt aagcagacag ttttattgtt 1160
434 catgatgata tatttttata ttgtgcaatg taacatcaga 1200
435 gattttgaga cacaacgtgg ctttccccc ccccccggca 1240
436 tgccctgcagg tcgacataaa tcaatattgg ctattggcca 1280
437 ttgcatacgt tgtatctata tcataatatg tacatttata 1320
438 ttggctcatg tccaatatga ccgccaatgt gacattgatt 1360
439 attgactagt tattaatagt aatcaattac ggggtcatta 1400
440 gttcatagcc catatatgga gttccgcgtt acataactta 1440
441 cggtaaatgg ccgcctcgt gaccgcccga cgacccccgc 1480
442 ccattgacgt caataatgac gtatgttccc atagtaacgc 1520
443 caataggggac tttccattga cgtcaatggg tggagtattt 1560
444 acggtaaaact gccacttgg cagtacatca agtgtatcat 1600
445 atgccaaatc cggcccccta ttgacgtcaa tgacggtaaa 1640
446 tggcccgccct ggcattatgc ccagtacatg accttacggg 1680
447 actttcctac ttggcagtac atctacgtat tagtcacgc 1720
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449 cgtggatagc ggtttgactc acggggattt ccaagtctcc 1800
450 accccattga cgtcaatggg agtttgtttt ggcacaaaaa 1840
451 tcaacgggac tttccaaaat gtcgtaataa ccccgccccg 1880
452 ttgacgcaaa tggcggttag gcgtctacgg tgggaggtct 1920
453 atataagcag agctcgttta gtgaaccgtc agatcgctg 1960
454 gagacgccat ccacgctgtt ttgacctcca tagaagacac 2000
455 cgggaccgat ccagcctccg cggcgggaa cgggtgcattg 2040
456 gaacgcggat tccccgtgcc aagagtgcgt aagtaccgc 2080
457 ctatagactc tataggcaca cccctttggc tcttatgcatt 2120
458 gctatactgt ttttggcttg gggcctatac acccccgtc 2160
459 cttatgctat aggtgatggt atagcttagc ctataggtgt 2200
460 gggttattga ccattattga ccaactccct attggtgacg 2240
461 atactttcca ttactaatcc ataacatggc tctttgccac 2280
462 aactatctct attggtata tgccaatact ctgtccttca 2320
463 gagactgaca cggactctgt atttttacag gatgggggtcc 2360
464 catttattat ttacaaatc acatatacaa caacgccgtc 2400
465 ccccgtgccc gcagttttta ttaaacatag cgtgggatct 2440
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467 ctccggtagc ggcggagctt ccacatccga gccctgggtcc 2520
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469 tcctaacagt ggaggccaga cttaggcaca gcacaatgcc 2600
470 caccaccacc agtgtgccgc acaaggccgt ggcggtaggg 2640
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472 tgacgcagat ggaagactta aggcagcggc agaagaagat 2720
473 gcaggcagct gattgttgtt attctgataa gagtcagagg 2760
474 taactcccgt tgcgggtctg ttaacggtgg agggcagtgt 2800
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476 cataatagct gacagactaa cagactgttc ctttccatgg 2880
477 gtcttttctg cagtcaccgt ccaagcttgc ggccaattcg 2920
478 gcacgagaga gtagtagact ccctaaagag ctactacact 2960

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479 aacaagaaaa atggcaacta tggaagaaat ccagagagaa 3000
480 atcagtgtct acgaggggca gcttgtgata gcacgccaga 3040
481 aggtcaagga tgcagaaaag cagtatgaga aggatcctga 3080
482 tgacttaaac aagagggcac tgcattgatc ggagagtgtc 3120
483 gcagcttcaa tacaatcaaa aattgatgaa ttgaagcgcc 3160
484 aacttgccga cagattgcag caggggaagaa catccgggca 3200
485 ggaccgggat cctacagggg tagagccagg tgatcatctt 3240
486 aaggaaagat cagcactaag ctacgggaat acactggacc 3280
487 tgaatagtct tgacattgat gaacctacag gacagacagc 3320
488 tgattggctg accataattg tctatctgac atcattcgtg 3360
489 gtcccgatca tcttgaaggg actgtacatg ttaacaacac 3400
490 gaggtaggca gacttcaaa gacaacaagg ggatgaggat 3440
491 cagattcaag gatgacagct catatgagga tgtcaatgga 3480
492 atcagaaaag ccaaaccatc gtatgtgtca atgccaaacg 3520
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494 attccgcact gcagtatgtg gactatatcc tgcacagata 3600
495 aaggcaagga atatggttaag ccctgtcatg agtgtagttg 3640
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499 actatatcag acagagacaa ggtgcacttg cagggatgga 3800
500 gccaaaggaa tttcaagccc tcaggcaaca ttcaaggat 3840
501 gctggatgta cactagttag acatattgag tcaccatcat 3880
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503 aacatgcttg tttgtcggag ggatggctga attaggtgcc 3960
504 ttcttttcta tacttcagga tatgaggaa acaatcatgg 4000
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527 attgtctgag taggtgtcat tctattctgg ggggtgggtg 4920

```

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528 ggggcaggac agcaagggg aggattggga agacaatagc 4960
529 aggcattgctg gggatgcggt gggctctatg gcttctgagg 5000
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553 ttaaaaaatga agttttaaat caatctaaag tatatatgag 5960
554 taaacttggt ctgacagtta ccaatgctta atcagtgagg 6000
555 cacctatctc agcgatctgt ctatttcggt catccatagt 6040
556 tgcttgactc                                     6050
E--> 559 51
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VERIFICATION SUMMARY

DATE: 09/26/2000

PATENT APPLICATION: US/09/491,974

TIME: 16:43:01

Input Set : A:\Sequence Listing.TXT

Output Set: N:\CRF3\09262000\I491974.raw

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:283 W: Missing Blank Line separator, <220> field identifier
L:36 M:283 W: Missing Blank Line separator, <400> field identifier
L:137 M:283 W: Missing Blank Line separator, <220> field identifier
L:138 M:283 W: Missing Blank Line separator, <400> field identifier
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
L:192 M:283 W: Missing Blank Line separator, <400> field identifier
L:402 M:283 W: Missing Blank Line separator, <220> field identifier
L:404 M:283 W: Missing Blank Line separator, <400> field identifier
L:559 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:6050 SEQ:4